

○ = PINNING

1) position of center of gravity

All dimensions are in mm; tolerances according to ISO 2768 m-H

EMC-screening must be assured by chassis compartment. Control box manufacturer is responsible for EMC-screening.

**Interface**

According to RN 059-01

**Documents**

Pinning instruction RN 053-01  
 Panel piercing MB\_215  
 Test specification RN 061-01

**Material and plating**

**Connector parts**

Center contact

**Material**

Spring bronze

**Plating**

Gold, 0.15 µm (Interface) (c)  
 Tin, 0.5-2 µm (PCB)

Outer contact

Brass

Ni, 3-6 µm (Interface)  
 Tin, 3-6 µm (PCB) (d)

Dielectric

LCP

Housing

PA 6T/66

Cover

Alpaca

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**Electrical data**

Impedance, differential mode	100 Ω differential signalling, for one pair or quad cable shielded
Frequency	DC to 2.0 GHz
Return loss	≥ 20 dB to 1.0 GHz ≥ 17 dB to 2.0 GHz
Insertion loss	≤ 0.1 dB @ 1.0 GHz
Skew (between signal contacts)	≤ 5 psec.
Nearend-Crosstalk	≤ 30 dB
Farend-Crosstalk	≤ 35 dB
Insulation resistance	≥ 1x10 <sup>3</sup> MΩ
Signal contact resistance	≤ 10 mΩ
Outer contact resistance	≤ 7.5 mΩ
Test voltage	250 V rms
Working voltage	100 V rms
Power current	≤ 1.5 A DC
RF-leakage ( shielding effectiveness )	≥ 75 dB up to 1 GHz (IEC 62153-4-7) ≥ 65 dB up to 2 GHz (IEC 62153-4-7),

**Mechanical data**

Mating cycles	≥ 25
Engagement force	≤ 30 N
Disengagement force	≥ 5 N
Retention force latch	≥ 110 N
Coding efficiency	≥ 80 N

**Environmental data**

Temperature range	-40°C to +105°C
Thermal shock	DIN IEC 60068-2-14 Test Na
Temperature and humidity	USCar 2 – 4 5.6.2
Vibration (Random)	DIN IEC 60068-2-64
Mechanical Shock	DIN IEC 60068-2-27
High-Temp. Exposure	DIN IEC 60068-2-2
Soldering profile	acc. to IEC 60068-2-58; Group 3&4
RoHS	compliant 

**Tooling**

N/A

**Packing**

Standard	200 pcs. in tape and reel
Weight	7.0 g/ pce

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